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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,552	01/27/2006	Artur Tadeusz Burchard	NL30898	7334

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NXP, B.V.
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EXAMINER

AUVE, GLENN ALLEN

ART UNIT	PAPER NUMBER
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2111

NOTIFICATION DATE	DELIVERY MODE
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07/23/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Office Action Summary

Application No.

10/566,552

Applicant(s)

BURCHARD ET AL.

Examiner

Glenn A. Auve

Art Unit

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>1/27/2006</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION***Drawings***

1. The drawings are objected to because the cryptically labeled rectangular box(es) shown in the drawings should be provided with descriptive text labels. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected because it is not clear what is meant by “based on a plurality of communication services” on lines 6-7.

Claims 2-7 are rejected because they depend on claim 1.

Claim 2 is also rejected because it is not clear what is meant by “the communication services, which requires the least interconnect resources, is selected.” There is also a grammatical error in this claim in that services are plural yet singular verb forms are used.

Claim 3 is also rejected based on lack of positive antecedent basis of “the granularity and data rates” on line 5. Also, “do not matches” on line 6 should be corrected.

Claim 4 is also rejected based on lack of positive antecedent basis of “the granularity and data rates” on line 5. Also, “if the granularity and data rates of the two modules matches” on lines 5-6 should be corrected.

Claim 7 is also rejected based on lack of positive antecedent basis of “said applications running on said modules”.

Claim 8 is rejected based on lack of positive antecedent basis of “the communication” on lines 6 and 10 and “said plurality of communication services” on lines 9-10.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1,2, and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Lambrecht et al., U.S. Pat. No. 5,935,232 [cited by applicant].

As per claim 1, Lambrecht shows an integrated circuit comprising a plurality of modules (210A-H) for processing applications, comprising: a global memory (any of the modules can be a memory, col.4, lines 23-26), which can be shared by said plurality of modules; an interconnect means for interconnecting said modules (230,232) and said global memory based on a plurality of communication services (230,232); and at least one communication managing unit (fig.6,611) for managing the communication between said plurality of modules, wherein said communication managing unit receives a request for a communication between at least two of said modules and dynamically selects one of said plurality of communication services as basis for the requested communication between said modules (col.4, lines 36-60 and col.8, line 35 – col.9, line 55). Lambrecht shows all of the elements recited in claim 1.

As for claim 2, the argument for claim 1 applies. Lambrecht also shows that the communication service which requires the least interconnect resources is selected (col.9, lines 25-49). Lambrecht shows all of the elements recited in claim 2.

As for claim 6, the argument for claim 1 applies. Lambrecht also shows that resources which were reserved for communication between said two of said plurality of modules are released after having performed the requested communication (col.9). Lambrecht shows all of the elements recited in claim 6.

As for claim 7, the argument for claim 1 applies. Lambrecht also shows that said applications running on said modules are resource constrained (col.8-9). Lambrecht shows all of the elements recited in claim 7.

As per claim 8, Lambrecht shows a method for selecting communication services in an integrated circuit comprising a plurality of modules (210) for processing applications, and a global memory (any of the modules as noted above) being adapted to be shared between said plurality of modules (210), comprising the steps of: managing communication between said

Art Unit: 2111

plurality of modules by receiving a request for a communication between at least two of said modules and by dynamically selecting one of a plurality of communication services as basis for the communication between said modules (col.4, lines 36-60 and col.8, line 35 – col.9, line 55). Lambrecht shows all of the steps recited in claim 8.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references show system on chip switching, but they do not appear to show the claimed details.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2111

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Glenn A. Auve
Primary Examiner
Art Unit 2111

gaa
17 July 2007